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753-65 PCT-US Sequence Listing
SEQUENCE LISTING

<110> POLYPHOR LTD.

<120> Template fixed beta-hairpin mimetics and their use in
phage display

<130> P1338PCT

<140> PCT/EP 03/12783

<141> 2003-11-15

<160> 44

<170> PatentIn Ver. 2.1

<210> 1

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:key sequence

<400> 1

Val Arg Lys Lys

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<210> 2

<211> 4

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:key sequence

<400> 2

Lys Lys Tyr Leu

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<210> 3

<211> 4

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:key sequence

<400> 3

Trp Leu Asp Val

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<210> 4

<211> 5

<212> PRT

<213> Artificial Sequence

753-65 PCT-US Sequence Listing

<220>

<223> Description of Artificial Sequence:key sequence

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Tyr Ile Arg Leu Pro
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<210> 5

<211> 5

<212> PRT

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Tyr Ile Gly Ser Arg
1 5

<210> 6

<211> 5

<212> PRT

<213> Artificial Sequence

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Ile Lys Val Ala Val
1 5

<210> 7

<211> 6

<212> PRT

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<223> Xaa in positions 4 and 5 can be any naturally occurring L-alpha-amino acid

<400> 7

Pro Pro Arg Xaa Xaa Trp
1 5

<210> 8

<211> 10

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<213> Artificial Sequence

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<223> Description of Artificial Sequence:hairpin mimetic

753-65 PCT-US Sequence Listing

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<220>
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 <222> (1)
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 Cys Lys Trp Phe Leu Ala His Tyr Ala Cys
 1 5 10

<210> 9
 <211> 14
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<220>
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<220>
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<220>
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 Glu Thr Cys Lys Trp Phe Leu Ala His Tyr Ala Cys Thr Lys
 1 5 10

<210> 10
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<220>
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<400> 10
 Cys Thr Lys Trp Phe Ser Asn His Tyr Gln Thr Cys
 1 5 10

<210> 11
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753-65 PCT-US Sequence Listing

<212> PRT
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<220>
<223> Description of Artificial Sequence:hairpin mimetic

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<210> 12
<211> 12
<212> PRT
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<220>
<223> Description of Artificial Sequence:hairpin mimetic

<220>
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<220>
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<210> 13
<211> 16
<212> PRT
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<220>
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<220>
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<222> (1)
<223> ACETYLATION

<400> 13
Leu Glu Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Lys Val
Page 4

753-65 PCT-US Sequence Listing

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<210> 14
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<212> PRT
<213> Artificial Sequence

<220>
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<220>
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Asn Gly Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Lys Val
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<210> 15
<211> 16
<212> PRT
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Gly Gly Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Gly Gly
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<210> 16
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<212> PRT
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<220>
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753-65 PCT-US Sequence Listing

<221> MOD_RES
<222> (1)
<223> ACETYLATION

<400> 16
Glu Thr Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Thr Lys
1 5 10 15

<210> 17
<211> 18
<212> PRT
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<221> MOD_RES
<222> (1)
<223> ACETYLATION

<400> 17
Glu Leu Lys Cys Thr Lys Trp Phe Ser Asn His Tyr Gln Thr Cys Glu
1 5 10 15

Val Lys

<210> 18
<211> 18
<212> PRT
<213> Artificial Sequence

<220>
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<222> (4)..(15)

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<221> MOD_RES
<222> (1)
<223> ACETYLATION

<400> 18
Lys Val Gly Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Gly
1 5 10 15

Leu Glu

<210> 19

753-65 PCT-US Sequence Listing

<211> 18
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<223> Description of Artificial Sequence:hairpin mimetic

<220>
<221> DISULFID
<222> (4)..(15)

<400> 19
Gly Gly Gly Cys Thr Lys Trp Phe Leu Ala His Tyr Ala Thr Cys Gly
1 5 10 15

Gly Gly

<210> 20
<211> 14
<212> PRT
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<220>
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<220>
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<400> 20
Cys Gly Thr Lys Trp Phe Ser Asn His Tyr Gln Thr Gly Cys
1 5 10

<210> 21
<211> 18
<212> PRT
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<220>
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<220>
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<220>
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<222> (1)
<223> ACETYLATION

<400> 21
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1 5 10 15

753-65 PCT-US Sequence Listing

Thr Lys

<210> 22

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:core peptide sequence

<400> 22

Leu Trp Tyr Ser Asn His Trp Val
1 5

<210> 23

<211> 8

<212> PRT

<213> Artificial Sequence

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<223> Description of Artificial Sequence:modified core peptide sequence

<400> 23

Lys Trp Phe Ser Asn His Tyr Gln
1 5

<210> 24

<211> 6

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:core peptide sequence

<400> 24

Phe Leu Ala His Tyr Ala
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<210> 25

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence:core peptide sequence

<400> 25

Leu Trp Tyr Ser Asn His Trp Val Lys Trp
1 5 10

753-65 PCT-US Sequence Listing

<210> 26
 <211> 39
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 26
 catgcccggtg tacctttcta ttctcactct gaaacctgc 39

 <210> 27
 <211> 84
 <212> DNA
 <213> Artificial Sequence

 <220>
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 <400> 27
 catgtttcgg ccgagccacc acctttggtg caggtctgat aatggttgct gaaccatttg 60
 gtgcaggttt cagagtgaga atag 84

 <210> 28
 <211> 30
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 28
 tgcaaagtgt tcctggcgca ttatgcgtgc 30

 <210> 29
 <211> 42
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 29
 gaaacctgca aatggttcct ggcgcattat gcgtgcacca aa 42

 <210> 30
 <211> 36
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 30
 tgcaccaa at gggtcagcaa ccattatcag acctgc 36

753-65 PCT-US Sequence Listing

<210> 31
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 31
 gaaacctgca ccaaatggtt cagcaaccat tatcagacct gcaccaa 48

<210> 32
 <211> 36
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 32
 tgcaccaaat ggctcctggc gcattatgcg acctgc 36

<210> 33
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 33
 ctggaatgca ccaaatggtt cctggcgcat tatgcgacct gcaaagtt 48

<210> 34
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 34
 aacggttgca ccaaatggtt cctggcgcat tatgcgacct gcaaagtt 48

<210> 35
 <211> 48
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 35
 ggtggttgca ccaaatggtt cctggcgcat tatgcgacct gcggcggt 48

<210> 36
 <211> 48

753-65 PCT-US Sequence Listing

<212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 36
 gaaacctgca ccaaattggt cctggcgcat tatgcgacct gcaccaa 48

 <210> 37
 <211> 54
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence:oligonucleotide

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 gaactgaaat gcaccaaatt gttcagcaac cattatcaga cctgcgaagt taaa 54

 <210> 38
 <211> 54
 <212> DNA
 <213> Artificial Sequence

 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 38
 aaagttggtt gcaccaaatt gttcctggcg cattatgcga cctgcggtct ggaa 54

 <210> 39
 <211> 54
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 <220>
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 <400> 39
 ggtggtggct gcaccaaatt gttcctggcg cattatgcga cctgcggcgg tggt 54

 <210> 40
 <211> 42
 <212> DNA
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 <220>
 <223> Description of Artificial Sequence:oligonucleotide

 <400> 40
 tgcggtacca aatggttcag caaccattat cagaccggtt gc 42

 <210> 41
 <211> 54
 <212> DNA
 <213> Artificial Sequence

753-65 PCT-US Sequence Listing

<220>
 <223> Description of Artificial Sequence:oligonucleotide

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 gaaacctgcg gtaccaaatg gttcagcaac cattatcaga ccggttgac caaa 54

<210> 42
 <211> 48
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:DNA sequence of
 randomized template fixed beta-hairpin mimetic
 Phage library

<220>
 <221> CDS
 <222> (1)..(48)

<220>
 <223> Xaa in the peptide chain signifies randomized
 amino acid positions

<220>
 <223> Cysteine residues in positions 3 and 14 are linked
 by a disulfide bridge

<400> 42
 gaa acc tgc nnk nnk nnk cgt ggt gac nnk nnk nnk nnk thc acc aaa 48
 Glu Thr Cys Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa Xaa Xaa Thr Lys
 1 5 10 15

<210> 43
 <211> 16
 <212> PRT
 <213> Artificial Sequence
 <223> Cysteine residues in positions 3 and 14 are linked
 by a disulfide bridge

<400> 43
 Glu Thr Cys Xaa Xaa Xaa Arg Gly Asp Xaa Xaa Xaa Xaa Xaa Thr Lys
 1 5 10 15

<210> 44
 <211> 84
 <212> DNA
 <213> Artificial Sequence

<220>
 <223> Description of Artificial Sequence:olignucleotide
 for library construction

<400> 44
 catgtttcgg ccgagccacc acctttggtg camnnmnnmn nmngtcacc acgmnnmnnm 60
 nngcaggttt cagagtgaga atag 84